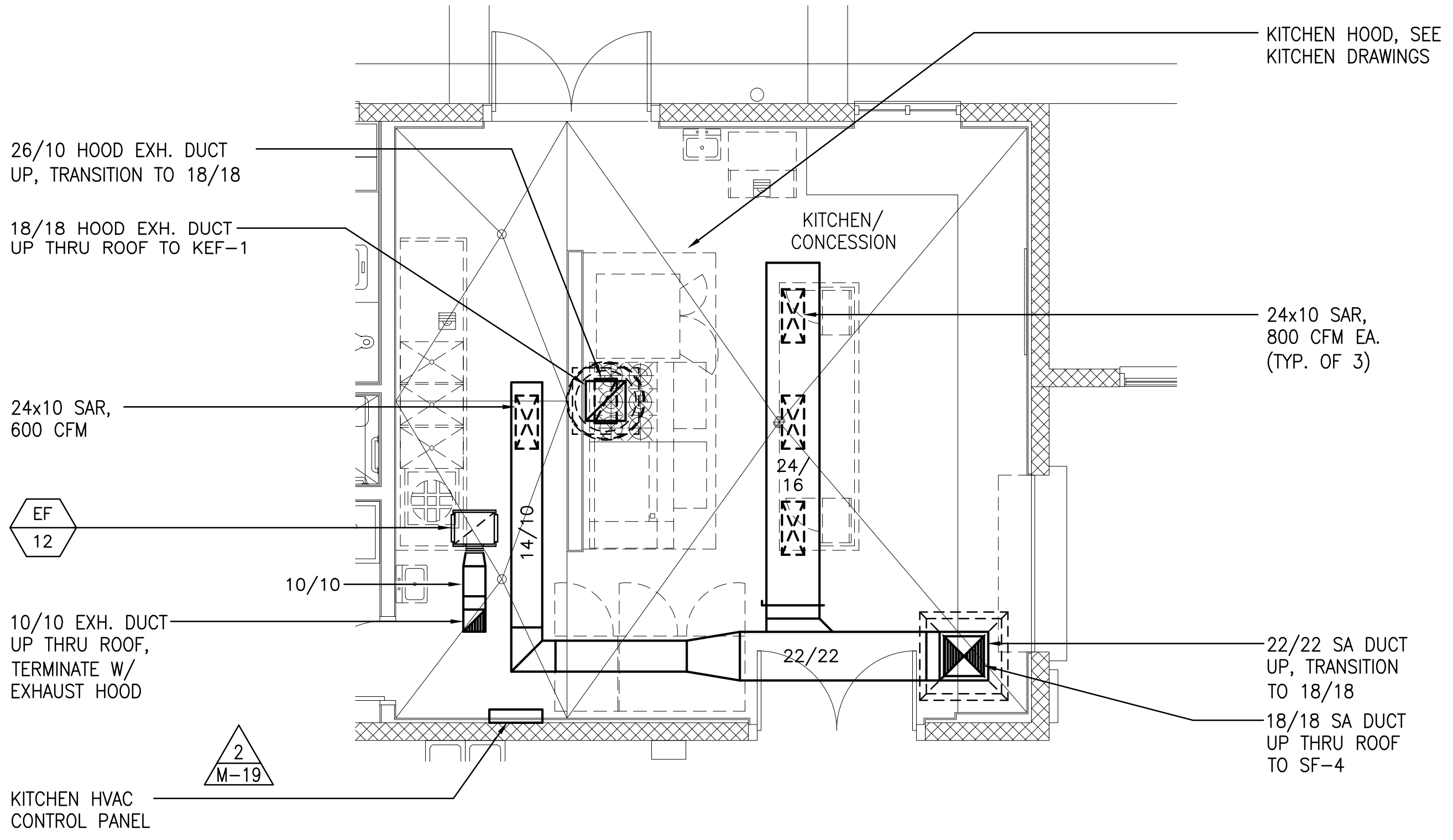
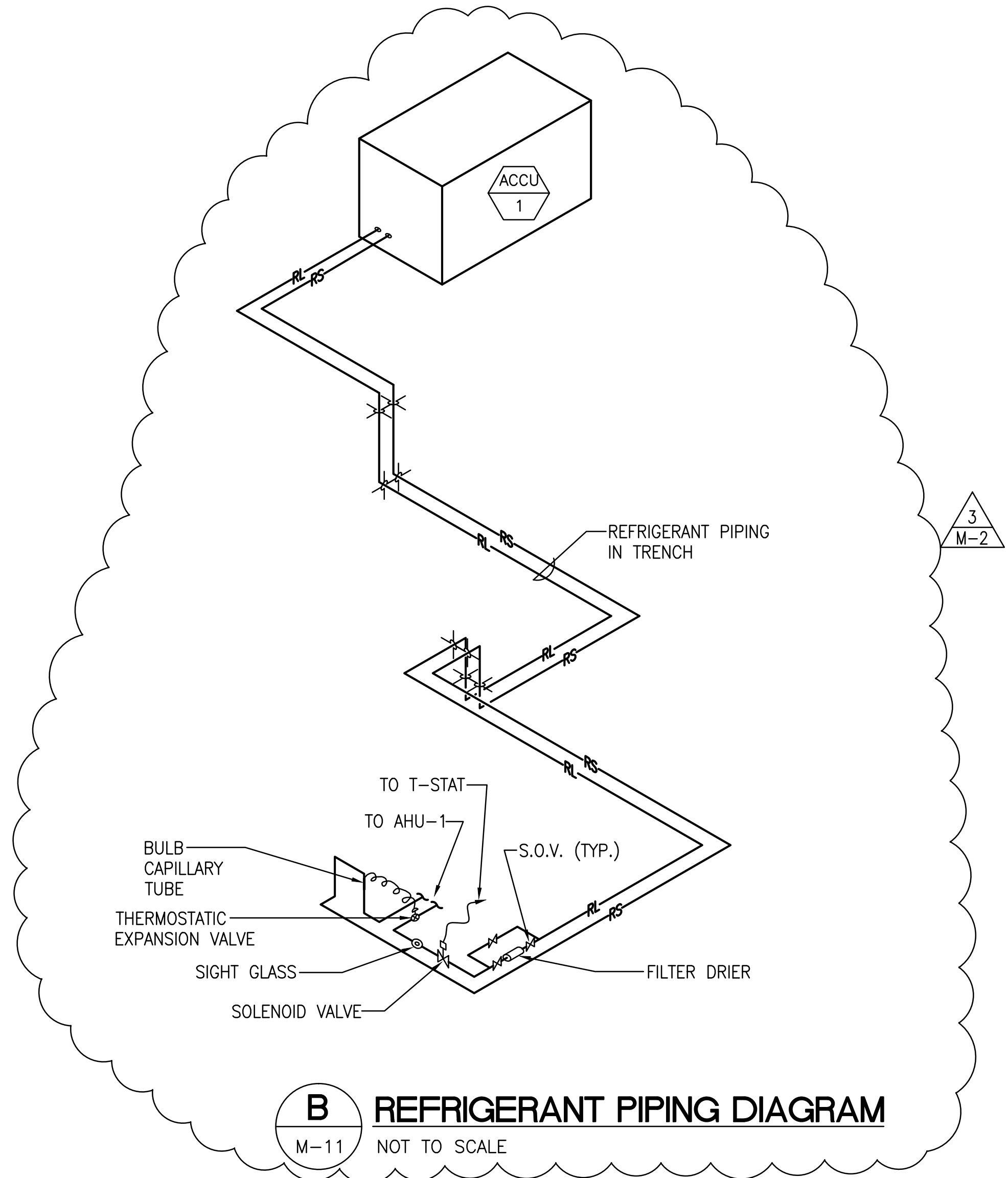


A MULTI-PURPOSE BLDG. HVAC PLAN
M-9 SCALE: 1/4" = 1'-0"

| | | | | | |
|--|---------|--|--|---|----------|
| | | | | | |
| 3 | 5-16-12 | CLARIFICATION | | DN | |
| REVISION | DATE | DESCRIPTION | | MADE BY | APPROVED |
| | | COUNTY OF HAWAII DEPARTMENT OF PUBLIC WORKS, BUILDING DIVISION | | | |
| | | NEW KA'U DISTRICT GYMNASIUM & SHELTER AT KA'U AND PAHALA ELEMENTARY SCHOOL CAMPUS JOB NO. B-4108 PA'AU'AU AHUPUA'A, DISTRICT, HAWAII ISLAND AND COUNTY OF HAWAII 96-2150 PIKAKE STREET, PAHALA, HAWAII 96777 TMK: (3) 9-6-05: 08 & 39 | | | |
| | | MULTI-PURPOSE BLDG. HVAC PLAN | | | |
| <div><div><div><div><div><div></div><div>DANIEL I. NAGAMATSU</div></div></div><div><div><div></div><div>LICENSED PROFESSIONAL ENGINEER</div><div>14505-M</div></div><div><div></div><div>HAWAII, U.S.A.</div></div></div></div><div>EXPIRES 4/30/14</div><div>This work was prepared by me or under my supervision and construction of this project will be under my observation. <i>Daniel I. Nagamatsu</i> MITSUNAGA & ASSOCIATES</div></div></div> | | REVIEWED: | | DESIGN BY: DN/RE DRAWN BY: CADD CHECKED BY: DN SHEET NO. M-9 | |
| | | DIVISION CHIEF BUILDING DIVISION DEPARTMENT OF PUBLIC WORKS | | DATE 2012 APR-5 146 OF 190 SHTS | |

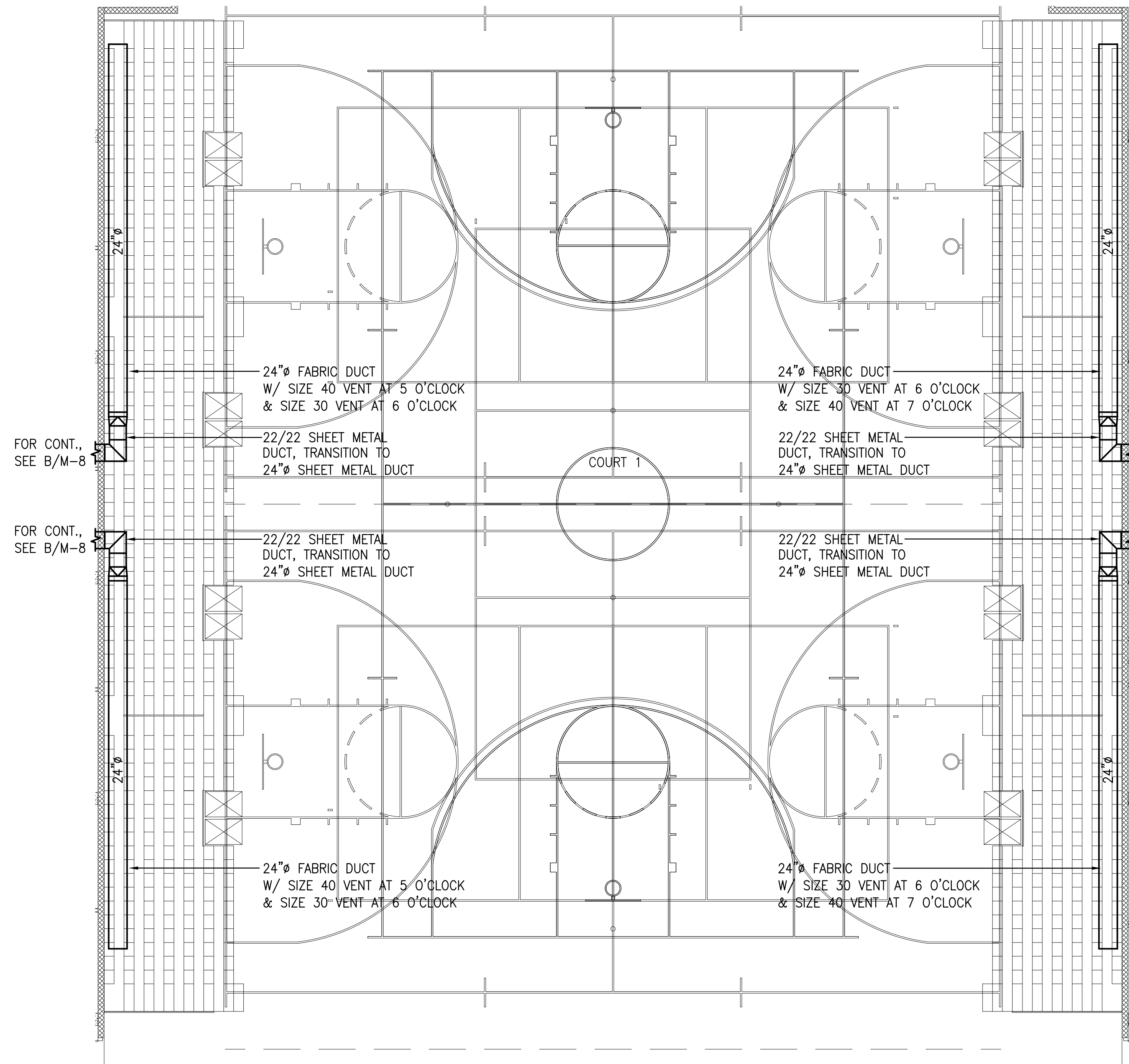


A KITCHEN HVAC PLAN
M-11 SCALE: 1/4" = 1'-0"

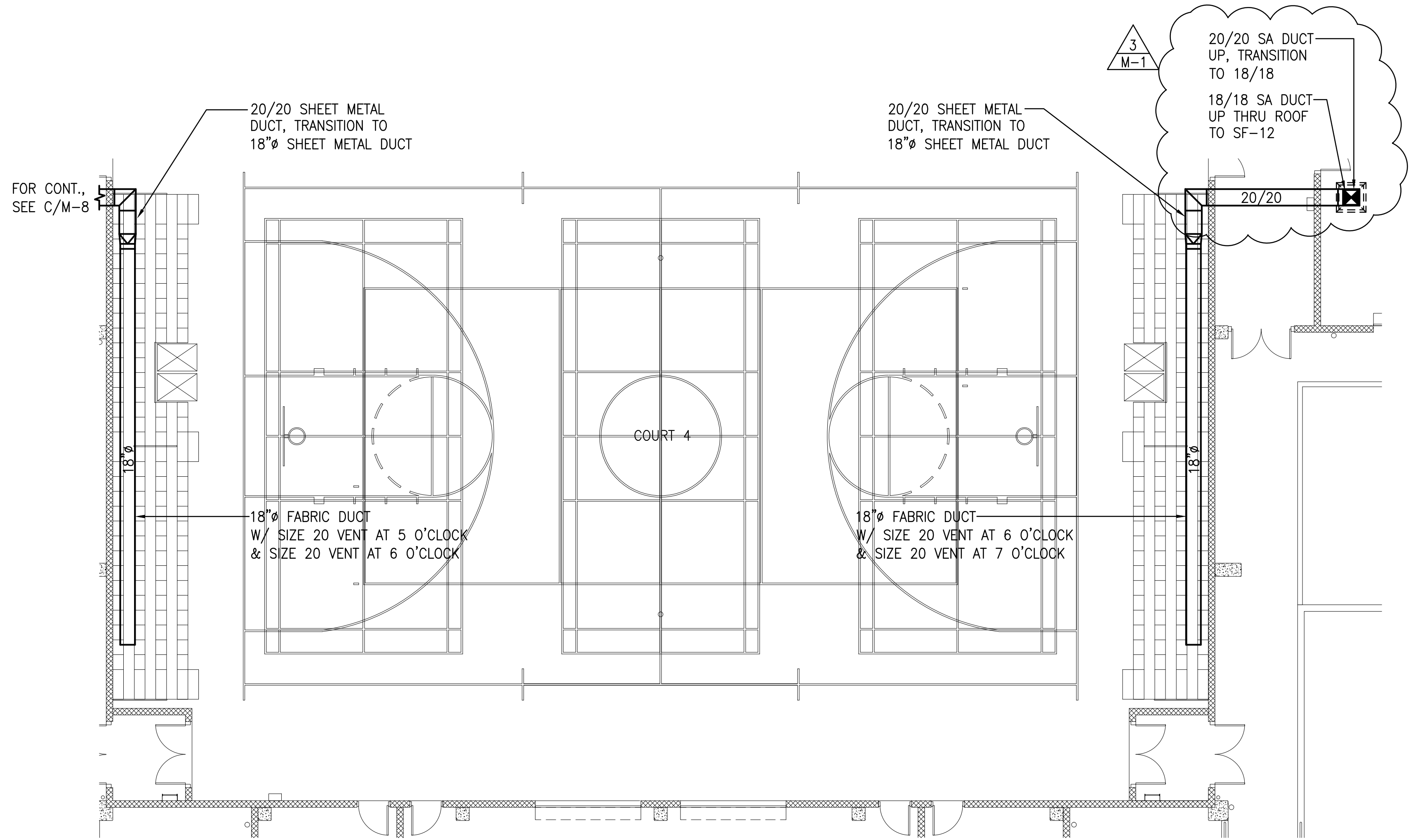


2
M-20

| | | | | |
|--|---------|--------------------|---------|----------|
| 3 | 5-16-12 | CLARIFICATION | DN | |
| 2 | 5-9-12 | CLARIFICATION | DN | |
| REVISION | DATE | DESCRIPTION | MADE BY | APPROVED |
| COUNTY OF HAWAII DEPARTMENT OF PUBLIC WORKS, BUILDING DIVISION NEW KA'U DISTRICT GYMNASIUM & SHELTER AT KA'U AND PAHALA ELEMENTARY SCHOOL CAMPUS JOB NO. B-4108 PA'ALAU AHUPUA'A, DISTRICT, HAWAII ISLAND AND COUNTY OF HAWAII 96-2150 PIKAKE STREET, PAHALA, HAWAII 96777 TMK: (3) 9-6-05: 08 & 39 | | | | |
| KITCHEN AND PARKS AND REC. DIR. OFF./ CONFERNECE HVAC PLAN | | | | |
| DESIGN BY: DN/RE | | SHEET NO. | | |
| DRAWN BY: CADD | | M-11 | | |
| CHECKED BY: DN | | 148 OF 190 SHTS | | |
| DIVISION CHIEF BUILDING DIVISION DEPARTMENT OF PUBLIC WORKS | | DATE 2012 APR-5 | | |



A COURT 1 HVAC PLAN
M-11a SCALE: 1/8" = 1'-0"



B COURT 4 HVAC PLAN
M-11a SCALE: 1/8" = 1'-0"

| | | | | |
|----------|---------|---------------|---------|----------|
| 3 | 5-16-12 | CLARIFICATION | DN | |
| 2 | 5-9-12 | CLARIFICATION | DN | |
| REVISION | DATE | DESCRIPTION | MADE BY | APPROVED |

DANIEL I. NAGAMATSU

LICENSED PROFESSIONAL ENGINEER

14505-M

HAWAII, U.S.A.

EXPIRES 4/30/14

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MITSUNAGA & ASSOCIATES

COUNTY OF HAWAII
DEPARTMENT OF PUBLIC WORKS, BUILDING DIVISION

NEW KA'U DISTRICT GYMNASIUM & SHELTER AT KA'U AND PAHALA ELEMENTARY SCHOOL CAMPUS
JOB NO. B-4108
PA'AU'AU AHUPUA'A, DISTRICT, HAWAII
ISLAND AND COUNTY OF HAWAII
96-2150 PIKAKE STREET, PAHALA, HAWAII 96777
TMK: (3) 9-6-05: 08 & 39

MAIN GYM FLOOR HVAC PLANS

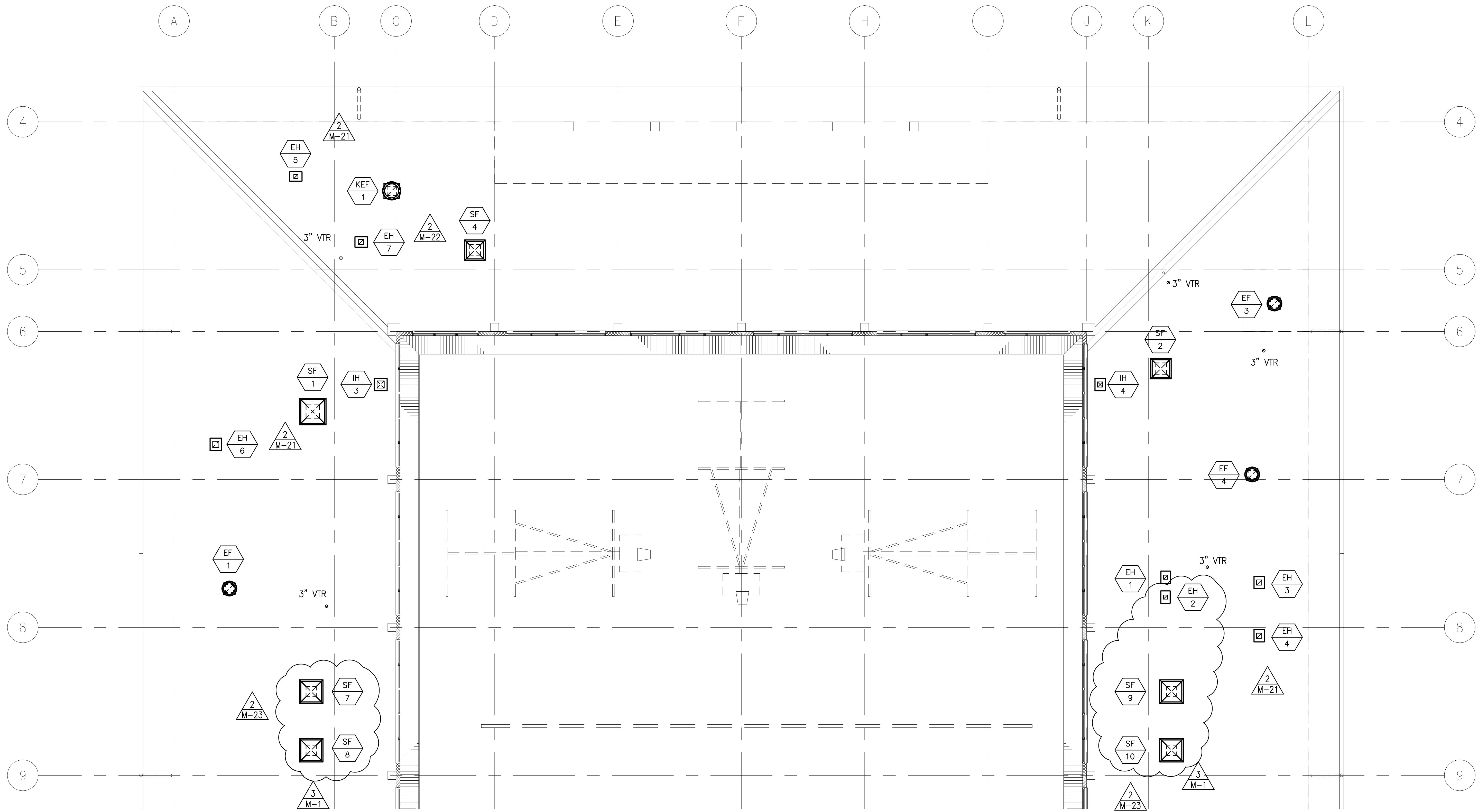
DESIGN BY: DN/RE
DRAWN BY: CADD
CHECKED BY: DN

REVIEWED:

DIVISION CHIEF
BUILDING DIVISION
DEPARTMENT OF PUBLIC WORKS

DATE
2012 APR-5

2
M-B
SHEET NO.
M-11a
OF 190 SHTS



A PARTIAL GYM LOWER ROOF MECHANICAL PLAN
M-12 SCALE: 1/8" = 1'-0"

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|----------|---------|---------------|---------|----------|
| 3 | 5-16-12 | CLARIFICATION | DN | |
| 2 | 5-9-12 | CLARIFICATION | DN | |
| REVISION | DATE | DESCRIPTION | MADE BY | APPROVED |

EXPIRES 4/30/14

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Daniel I. Nagamatsu
MITSUNAGA & ASSOCIATES

COUNTY OF HAWAII
DEPARTMENT OF PUBLIC WORKS, BUILDING DIVISION

NEW KA'U DISTRICT GYMNASIUM & SHELTER AT KA'U AND PAHALA ELEMENTARY SCHOOL CAMPUS
JOB NO. B-4108

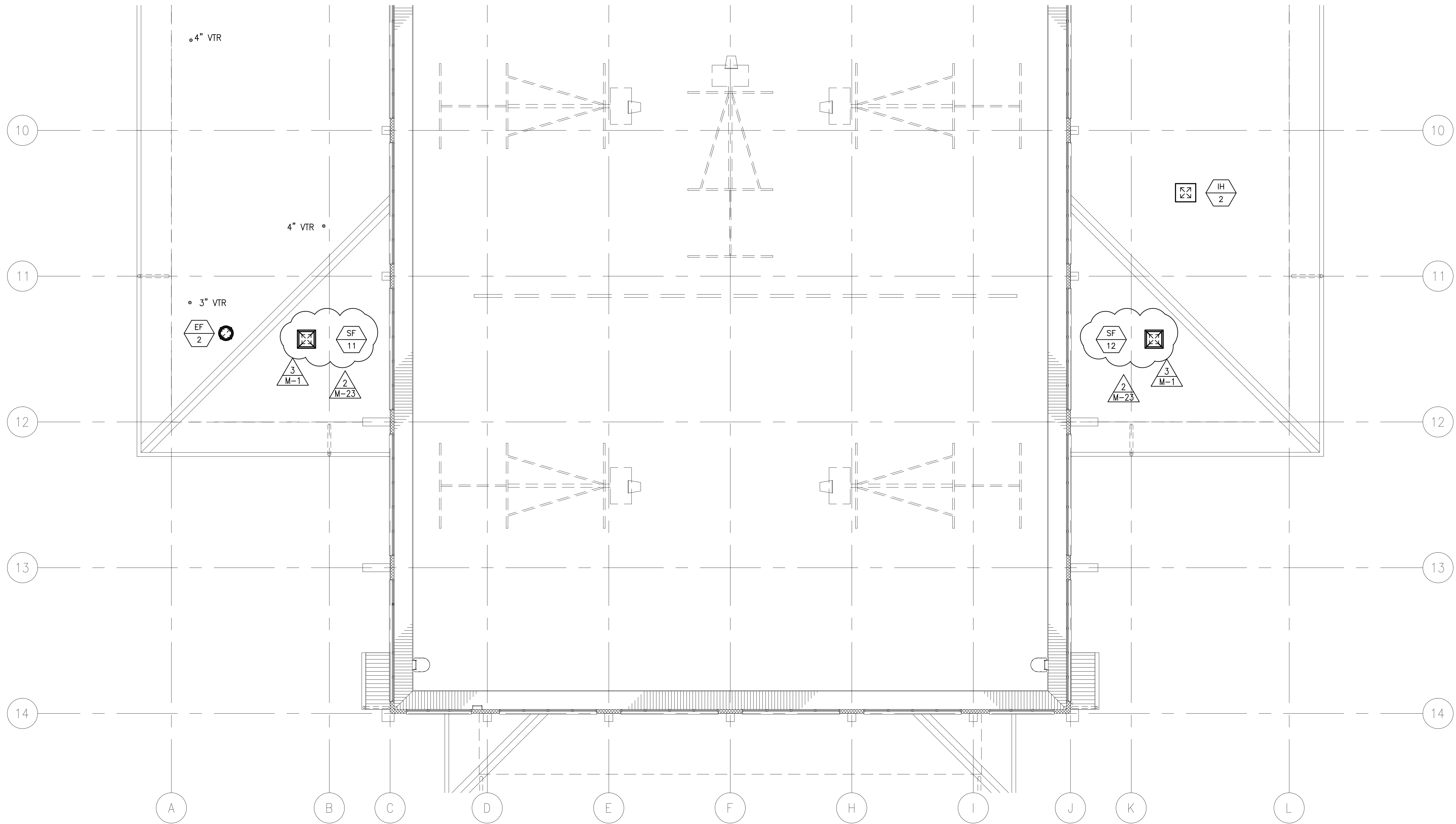
PA'AU'AU AHUPUA'A, DISTRICT, HAWAII
ISLAND AND COUNTY OF HAWAII
96-2150 PIKAKE STREET, PAHALA, HAWAII 96777
TMK: (3) 9-6-05: 08 & 39

PARTIAL GYM LOWER ROOF MECHANICAL PLAN

| |
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| DESIGN BY: DN/RE |
| DRAWN BY: CADD |
| CHECKED BY: DN |
| SHEET NO. M-12 |

| | |
|---|--------------------|
| DIVISION CHIEF BUILDING DIVISION DEPARTMENT OF PUBLIC WORKS | DATE 2012 APR-5 |
|---|--------------------|

149 OF 190 SHTS



A PARTIAL GYM LOWER ROOF MECHANICAL PLAN
M-13 SCALE: 1/8" = 1'-0"

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|----------|---------|---------------|---------|----------|
| 3 | 5-16-12 | CLARIFICATION | DN | |
| 2 | 5-9-12 | CLARIFICATION | DN | |
| REVISION | DATE | DESCRIPTION | MADE BY | APPROVED |

EXPIRES 4/30/14

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Daniel I. Nagamatsu
MITSUNAGA & ASSOCIATES

COUNTY OF HAWAII
DEPARTMENT OF PUBLIC WORKS, BUILDING DIVISION

NEW KA'U DISTRICT GYMNASIUM & SHELTER AT KA'U AND PAHALA ELEMENTARY SCHOOL CAMPUS
JOB NO. B-4108

PA'AU'AU AHUPUA'A, DISTRICT, HAWAII
ISLAND AND COUNTY OF HAWAII
96-2150 PIKAKE STREET, PAHALA, HAWAII 96777
TMK: (3) 9-6-05: 08 & 39

PARTIAL GYM LOWER ROOF MECHANICAL PLAN

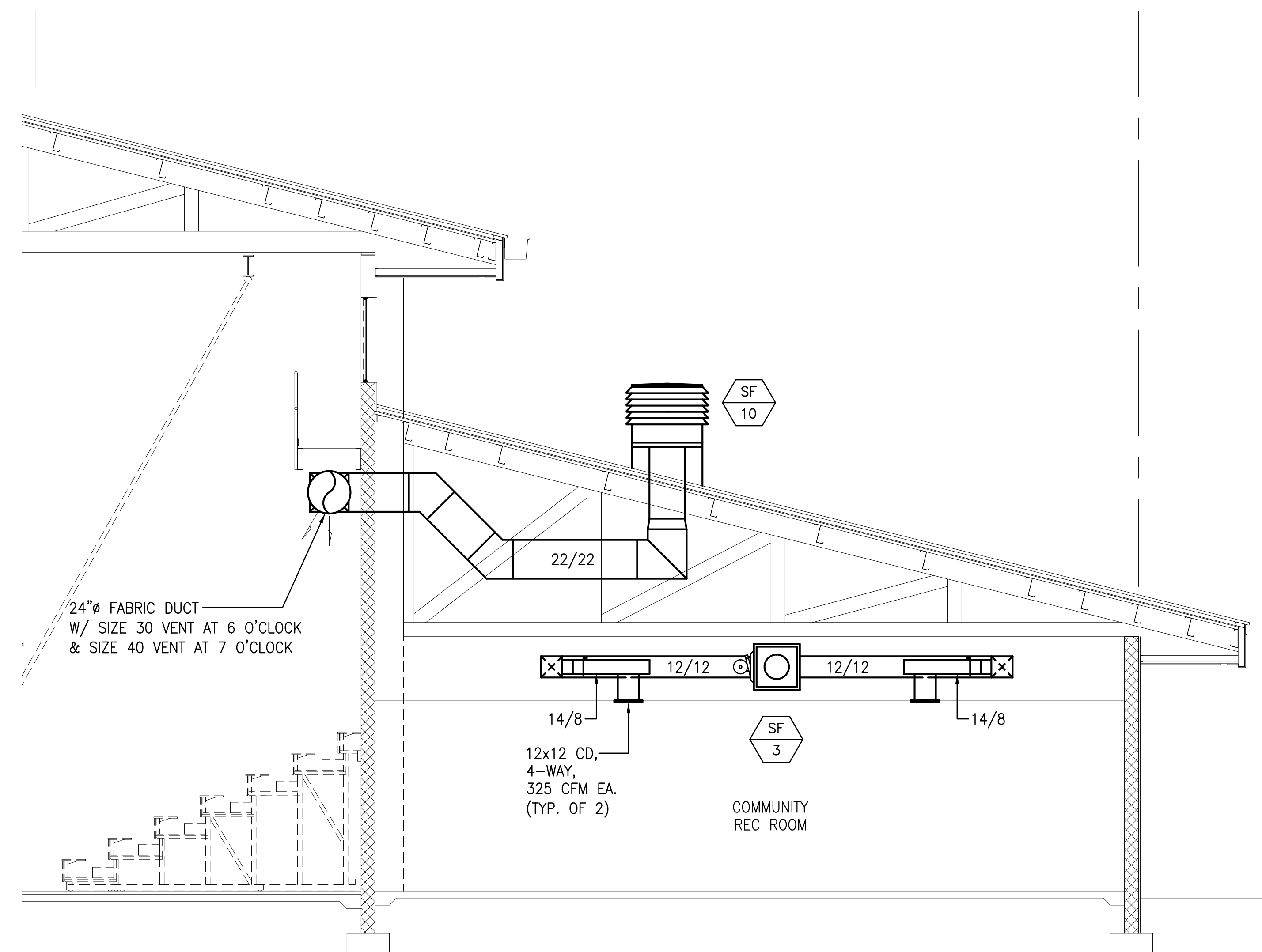
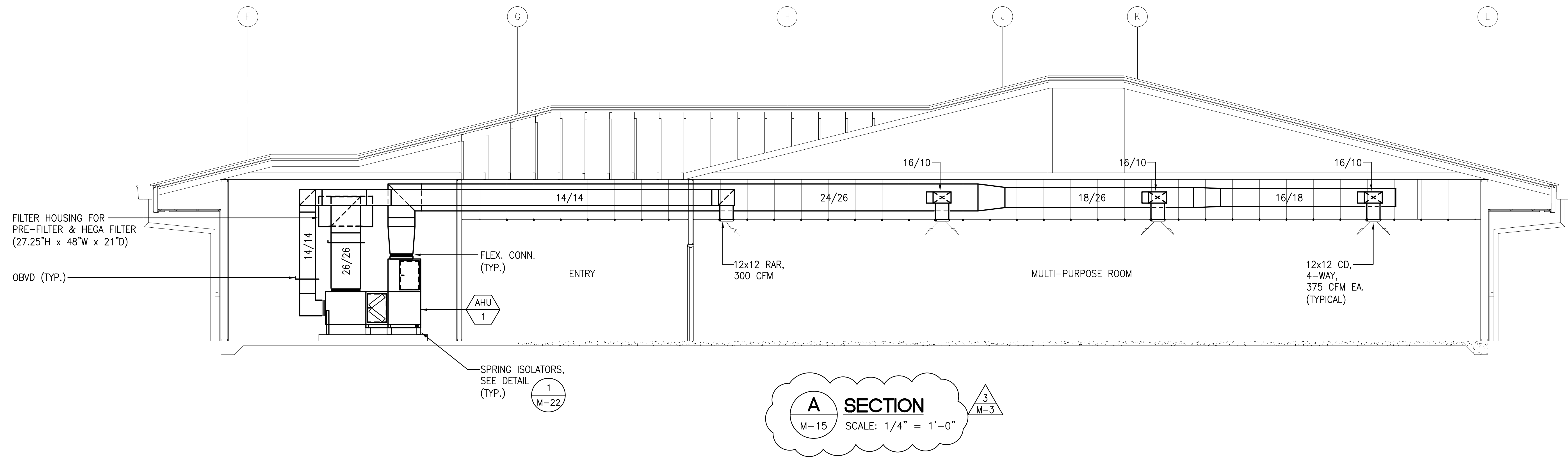
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DRAWN BY: CADD
CHECKED BY: DN

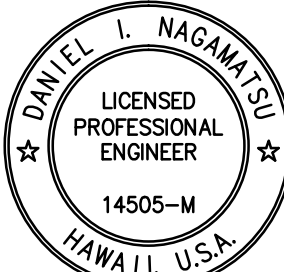
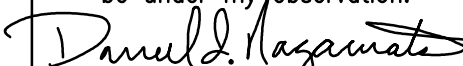
SHEET NO.
M-13
150 OF 190 SHTS

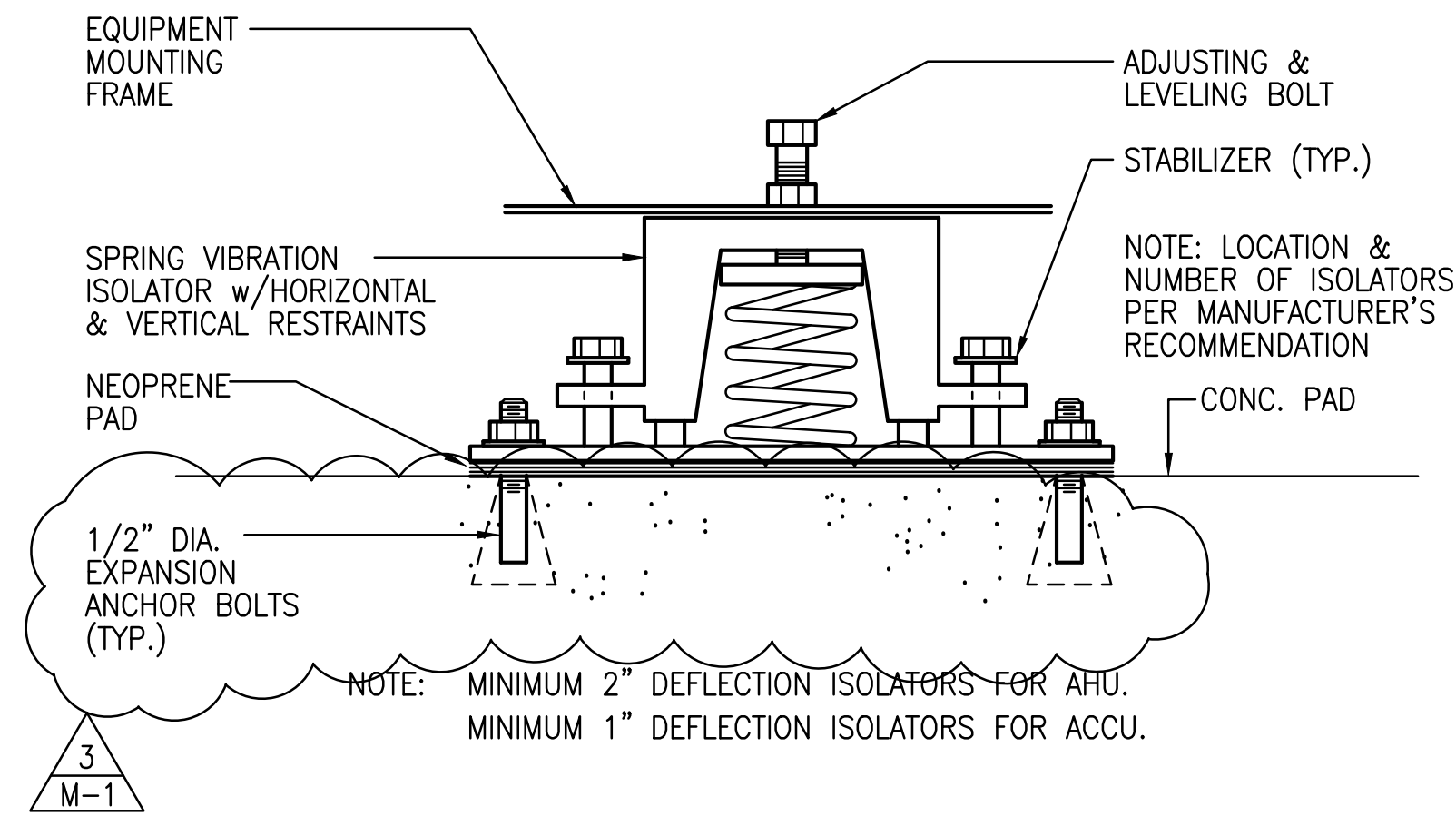
REVIEWED:

DIVISION CHIEF
BUILDING DIVISION
DEPARTMENT OF PUBLIC WORKS

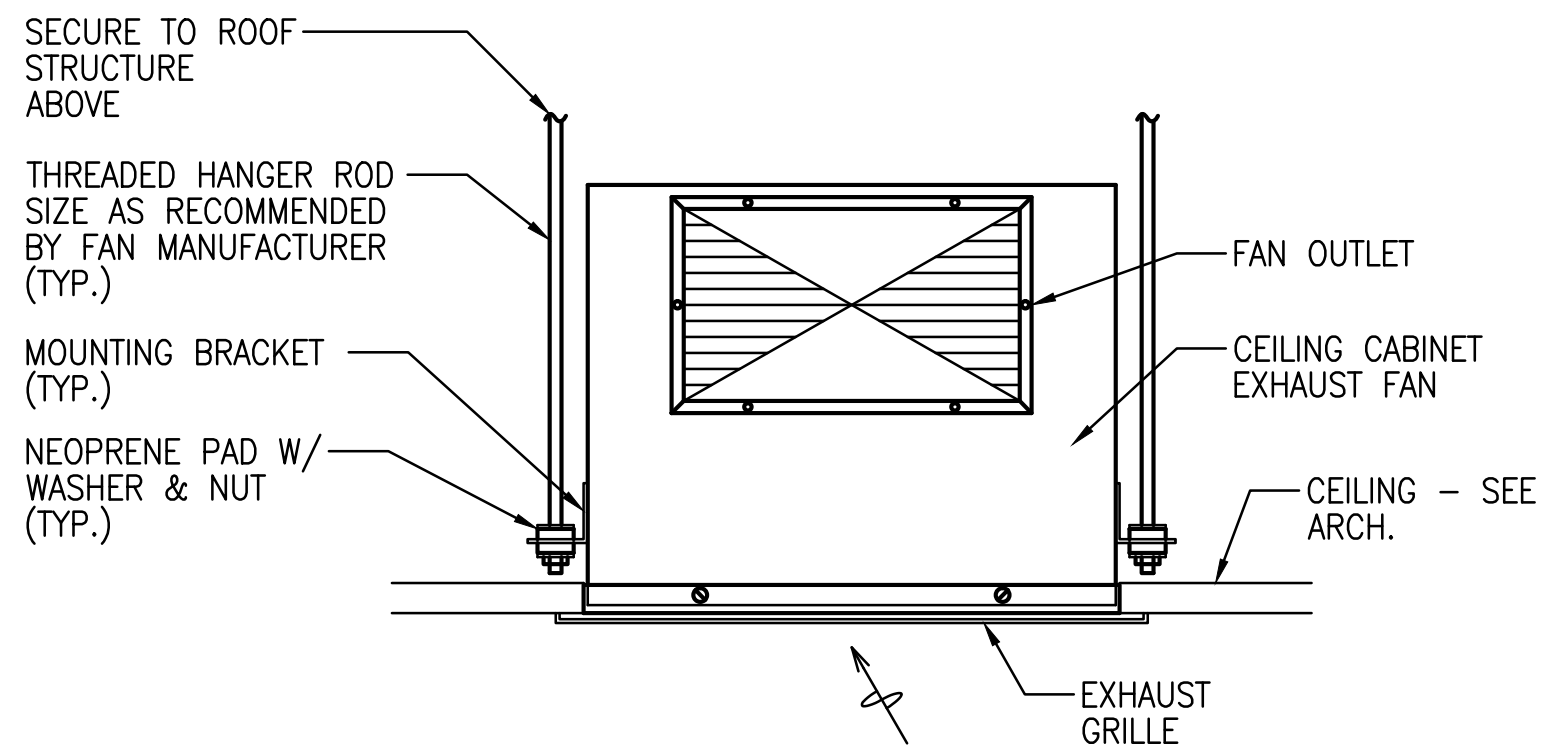
DATE
2012 APR-5



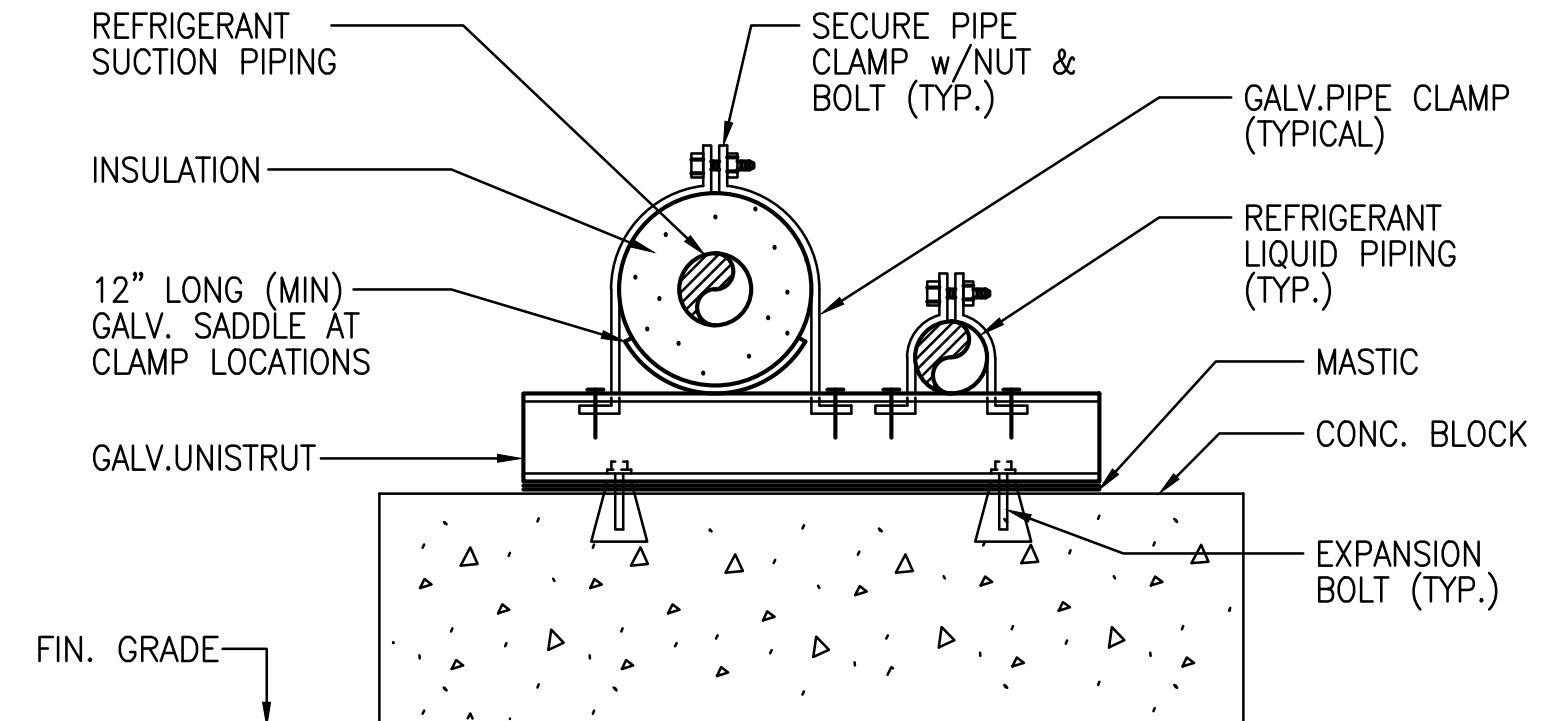
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| 3 | 5-16-12 | CLARIFICATION | | DN |
| REVISION | DATE | DESCRIPTION | MADE BY | APPROVED |
| <div><div></div><div><div>EXPRES 4/30/14</div><div>This work was prepared by me or under my supervision and construction of this project will be under my observation.</div><div> MITSUNAGA & ASSOCIATES</div></div></div> <div><div><div>COUNTY OF HAWAII DEPARTMENT OF PUBLIC WORKS, BUILDING DIVISION</div><div><div>NEW KA'U DISTRICT GYMNASIUM & SHELTER AT KA'U AND PAHALA ELEMENTARY SCHOOL CAMPUS</div><div>JOB NO. B-4108</div><div>PA'AU/AU AHUPUA'A, DISTRICT, HAWAII ISLAND AND COUNTY OF HAWAII 96-2150 PIKAKE STREET, PAHALA, HAWAII 96777 TMK: (3) 9-6-05: 08 & 39</div></div></div><div>SECTIONS</div><div><div>REVIEWED:</div><div><div>DIVISION CHIEF BUILDING DIVISION DEPARTMENT OF PUBLIC WORKS</div><div>DATE 2012 APR-5</div></div></div><div><div>DESIGN BY: DN/RE DRAWN BY: CADD CHECKED BY: DN</div><div><div>SHEET NO.</div><div>M-15</div><div>152 OF 190 SHTS</div></div></div></div> | | | | |



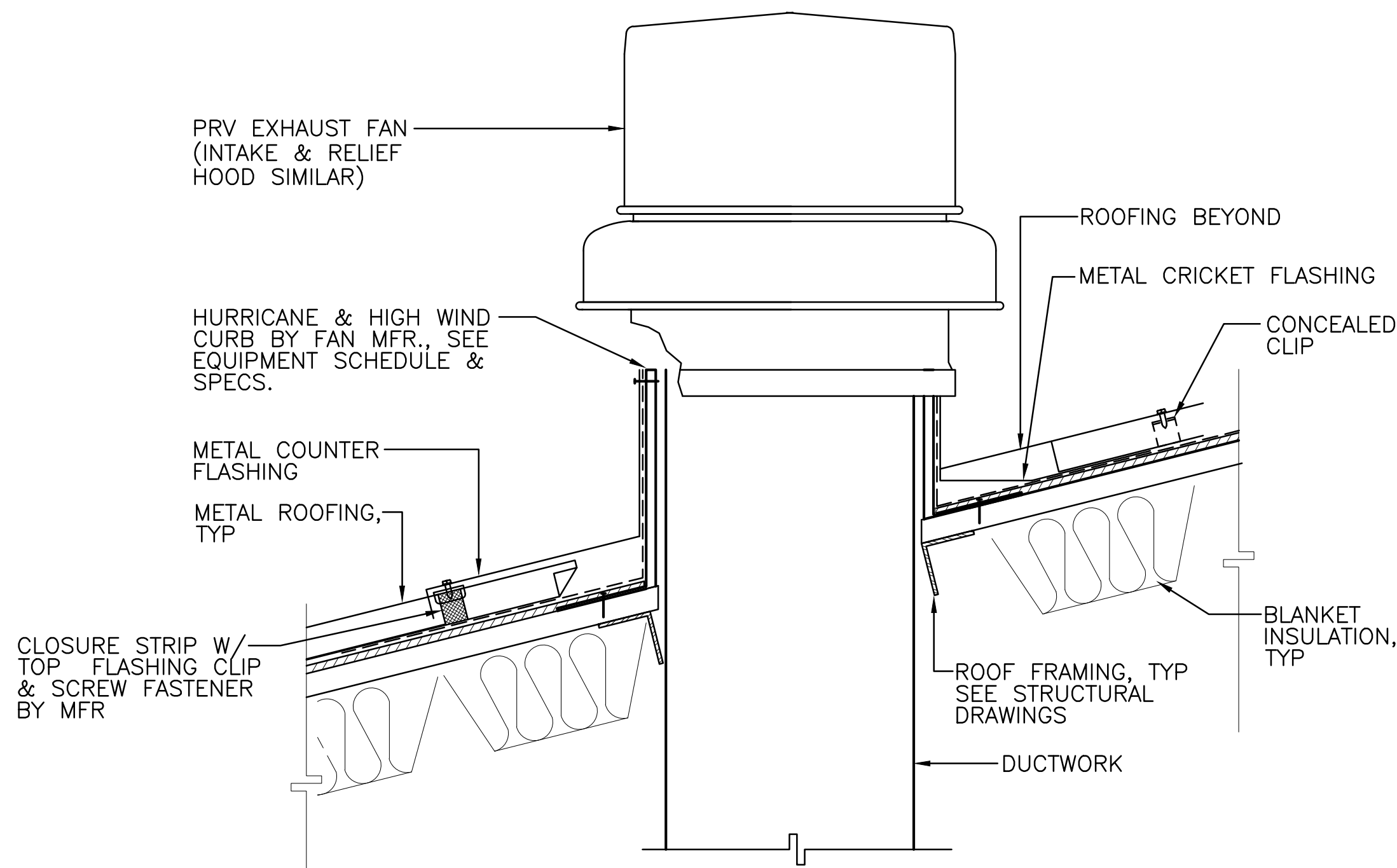
1 EQUIPMENT MOUNTING DETAIL
M-22 NOT TO SCALE



2 CEILING CABINET EXHAUST FAN MOUNTING DETAIL
M-22 NOT TO SCALE



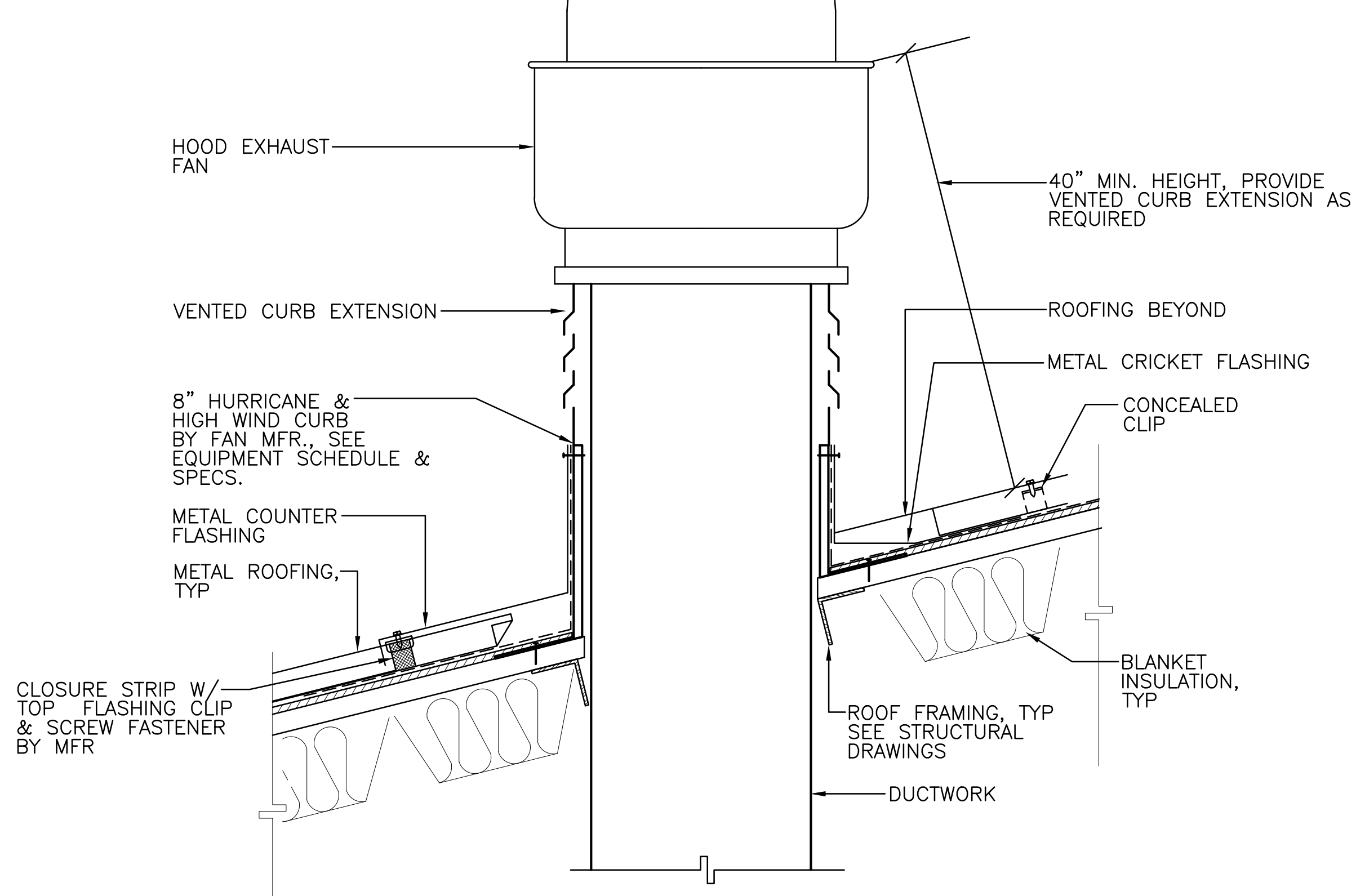
3 REFRIGERANT PIPE SUPPORT DETAIL
M-22 NOT TO SCALE



NOTES:

1. FASTEN ROOF CURB TO ROOF STRUCTURE PER MANUFACTURER'S RECOMMENDATIONS.
2. FASTEN FAN TO ROOF CURB PER MANUFACTURER'S RECOMMENDATIONS (INTAKE & EXHAUST HOOD SIMILAR).
3. COORDINATE ROOF OPENING WITH ARCHITECTURAL DRAWINGS.
4. COORDINATE ROOFING AND ROOF FLASHING WITH ARCHITECTURAL.

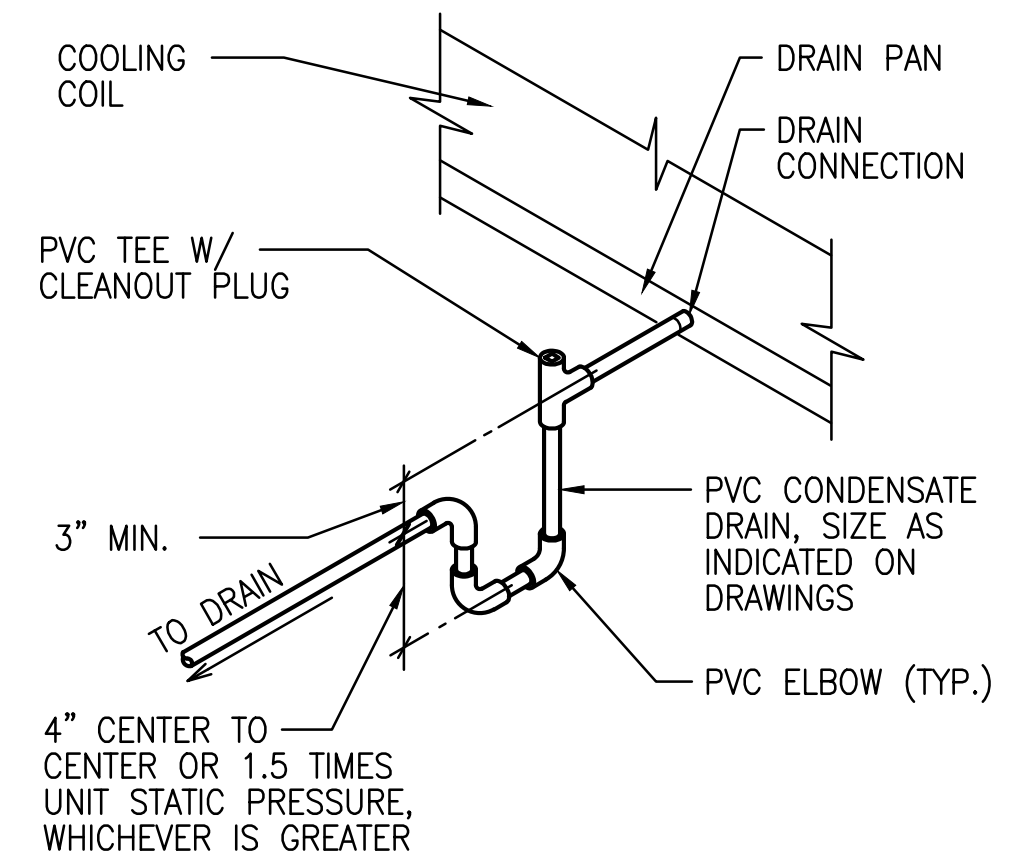
4 P.R.V. DETAIL
M-22 NOT TO SCALE



NOTES:

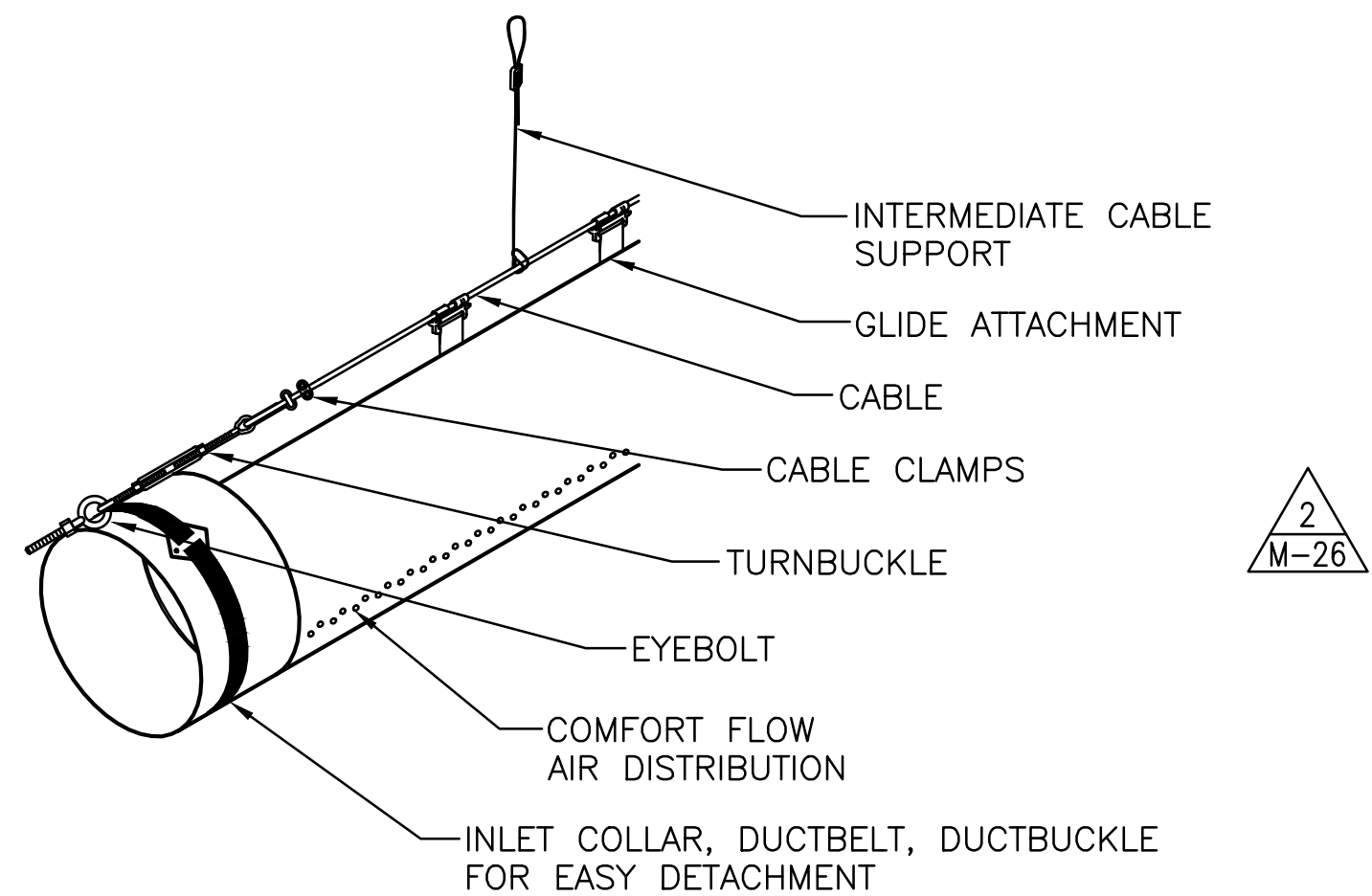
1. FASTEN ROOF CURB TO ROOF STRUCTURE PER MANUFACTURER'S RECOMMENDATIONS.
2. FASTEN FAN TO ROOF CURB PER MANUFACTURER'S RECOMMENDATIONS.
3. COORDINATE ROOF OPENING WITH ARCHITECTURAL DRAWINGS.
4. COORDINATE ROOFING AND ROOF FLASHING WITH ARCHITECTURAL.

5 KITCHEN EXHAUST FAN DETAIL
M-22 NOT TO SCALE



NOTE: SLOPE CONDENSATE PIPING DOWN TOWARD DRAIN AT NOT LESS THAN 1/8\"/>

6 CONDENSATE DRAIN DETAIL
M-22 NOT TO SCALE



7 FABRIC DUCT HANGING DETAIL
M-22 NOT TO SCALE

| 3 | 5-16-12 | CLARIFICATION | DN | |
|---|---------|---------------|------------------|----------|
| 2 | 5-9-12 | CLARIFICATION | DN | |
| REVISION | DATE | DESCRIPTION | MADE BY | APPROVED |
| <div> <div> <p>EXPIRES 4/30/14</p> <p>This work was prepared by me or under my supervision and construction of this project will be under my observation.</p> <p><i>Daniel I. Nagamatsu</i> MITSUNAGA & ASSOCIATES</p> </div> <div> <p>COUNTY OF HAWAII DEPARTMENT OF PUBLIC WORKS, BUILDING DIVISION</p> <p>NEW KA'U DISTRICT GYMNASIUM & SHELTER AT KA'U AND PAHALA ELEMENTARY SCHOOL CAMPUS JOB NO. B-4108</p> <p>PA'ALAU AHUPUA'A, DISTRICT, HAWAII ISLAND AND COUNTY OF HAWAII 96-2150 PIKAKE STREET, PAHALA, HAWAII 96777 TMK: (3) 9-6-05: 08 & 39</p> </div> </div> | | | | |
| DETAILS | | | | |
| REVIEWED: | | | DESIGN BY: DN/RE | |
| | | | DRAWN BY: CADD | |
| | | | CHECKED BY: DN | |
| | | | SHEET NO. | |
| | | | M-22 | |
| | | | 159 OF 190 SHTS | |